



# Selections & Timing Vanguard Fund Family

PO Box 3367 Bella Vista AR 72715

Striving to provide you with the most return and the least risk.

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UPDATE: We suggest making the following change as noted below. The markets continued volatile. Our strategy works best in trending markets.

VANGUARD, selected & timed (3-month hold at least), style and asset allocated (stock, bond, balanced, cash)													
Past & Future Activity	Activity	Fund	Action Price	Number of Shares	Action Value	Fund	Fund Style	At month end Symbol	Ending NAV	Number of Shares	Current Value	Percent of Total	
<b>PAST</b>													
1-Dec	sell	VUSTX	11.98	2,375.4019	28,457	Emrg Mrkt	EW	VEIEX	22.68	1,367.0332	31,004	34%	
1-Dec	buy	VUVLX	18.44	1,626.8980	30,000	Intrntl Grth	EW	VWIGX	21.19	1,427.8110	30,255	33%	
						US Value	EV	VUVLX	18.00	1,686.8582	30,363	33%	
<b>TO DO ON</b>													
4-Jan	sell	VWIGX		all									
4-Jan	buy	VSEQX			30,000								
4-Jan	sell	VEIEX		all									
4-Jan	buy	VIVAX			30,000								
buys are each about 32% of total portfolio													
						Cash	Money Market		1.00	864.0000	864	1%	
											Total Valuation=	92,487	100%

	2015	ytd 2016	12 m	9 m	6 m	3 m	1 m
Vanguard Portfolio	-1.11	-6.47	-6.47	-4.38	-8.01	-8.08	0.14
World Growth Index	-3.01	10.65	10.65	10.82	9.08	2.48	1.39
World Income Index	0.19	2.60	2.60	-1.60	-5.15	-5.27	0.00
World Hybrid (60/40) Index	-1.97	7.97	7.97	6.57	4.14	-0.10	0.95

We track and rank 48 Vanguard funds monthly by C, the risk-adjusted relative strength metric. We buy and hold the three top funds.

After at least a three-month hold, we either stay with the buys or sell the laggards and buy the new leaders. This is a proactive rotational allocation strategy. The funds and ranks are shown on page 2.

The right side of the top table above shows the Vanguard Portfolio at month end. The left side

shows new trades upcoming for the month and past trades from previous months.

The lower table above shows the Vanguard Portfolio compared with the World Indexes.

If you have any questions, please email us. Thank you.

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# Vanguard Fund Family by C

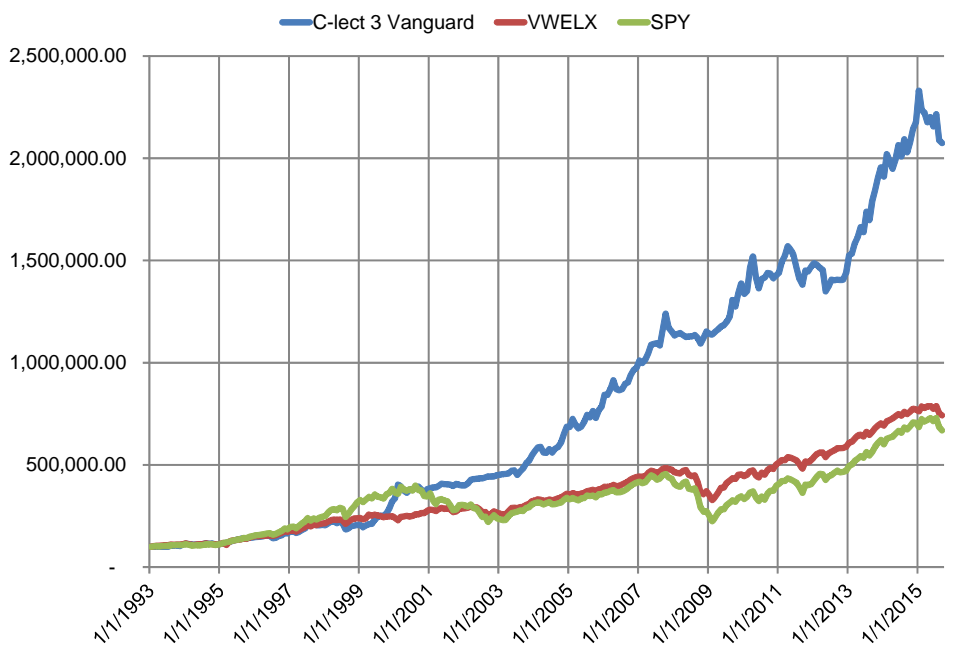
## VANGUARD FUND FAMILY by C

ETF Altrntv	Sell Eligible	Legend	Fund Name	Symbol	S	A	12m	9m	6m	3m	1m	NAV	V	CS	C	Fmly Rank
VTV	3/2/2017	F S T	Vanguard US Value	VUVLX	EV	E	16.4	16.6	13.8	10.0	3.0	18.32	2.9	35.3	12.3	*****
VO	to buy	F S T	Vanguard Strtg Eqty	VSEQX	EMC	E	17.9	17.4	16.9	9.7	2.7	32.37	3.5	40.1	11.6	*****
MGV	to buy	F S T	Vanguard Value Index	VIVAX	EV	E	16.7	14.9	10.7	7.5	2.6	36.24	2.5	28.0	11.1	*****
VB		F S T	Vanguard SmlCap Index	NAESX	ESC	E	18.2	17.0	12.6	6.1	1.9	61.75	3.5	31.1	8.8	****
VYM		F S T	Vanguard High Yld Dividend	VHDYX	EV	E	16.7	12.2	7.5	5.8	2.9	29.97	2.4	20.5	8.7	****
VXF		F S T	Vanguard Extended Mrkt Index	VEXMX	EMC	E	16.0	17.0	13.2	5.6	1.8	72.76	3.5	29.0	8.2	****
MGV		F S T	Vanguard Windsor	VWNDX	ELC	E	12.5	14.8	13.2	6.6	1.8	20.53	3.4	24.3	7.1	****
MGV		F S T	Vanguard Windsor II	VWVFX	ELC	E	13.4	13.2	10.0	5.7	1.6	35.14	2.8	19.3	6.9	****
VYM		F S T	Vanguard Equity Income	VEIPX	EGI	E	14.7	10.8	6.5	4.8	2.7	32.62	2.3	14.9	6.4	****
VOE		F S T	Vanguard Cap Value	VCVLX	EV	E	11.8	16.8	13.0	6.2	1.2	12.01	3.9	24.5	6.3	****
MGK		F S T	Vanguard Cap Opprtn	VHCOX	ELC	E	10.6	14.3	15.8	3.3	1.9	53.83	3.7	21.3	5.8	****
VOE		F S T	Vanguard Slctd Value	VASVX	EV	E	13.2	11.8	11.9	5.9	-0.8	28.78	3.4	17.4	5.1	****
MGK		F S T C	Vanguard PRIMECAP	VPMCX	ELC	E	10.6	12.9	12.6	2.5	1.7	105.07	3.2	15.7	5.0	****
VYM		F S T	Vanguard Grwth & Incm	VQNPX	EGI	E	12.0	10.5	7.9	4.0	1.7	41.42	2.4	11.5	4.7	****
VOO		F S T	Vanguard 500 Index	VFINX	ELC	E	11.8	10.4	7.8	3.8	2.0	206.57	2.4	11.1	4.6	***
VBK		F S T	Vanguard Explorer	VEXPX	ESC	E	12.3	13.7	10.8	2.3	0.8	86.51	3.5	15.3	4.3	***
NotAvl		F S T C	Vanguard Wellington	VWELX	H	H	11.0	8.9	5.7	3.2	2.1	39.06	1.7	6.4	3.7	***
VBK		F S T	Vanguard SmlCap Grwth	VISGX	ESC	E	10.6	12.8	8.1	1.4	0.6	37.43	3.4	8.9	2.6	***
VO		F S T	Vanguard MidCap Index	VMSX	EMC	E	11.1	9.8	7.4	2.1	0.7	35.92	2.8	6.5	2.3	***
NotAvl		F S T	Vanguard Prc Mtls	VGPMX	EG	E	50.6	14.5	-15.1	-16.3	-0.6	9.40	10.4	8.5	0.8	***
NotAvl		F S T	Vanguard High Yld Corp	VWEHX	BH	B	10.6	8.2	4.6	0.3	0.9	5.83	1.3	0.0	0.0	***
NotAvl		F S T C	Vanguard Convertible Securities	VCVSX	EGI	E	6.6	8.8	6.7	0.6	1.0	12.73	1.8	-0.9	-0.2	***
NotAvl		F S T	Vanguard Balanced	VBINX	H	H	8.6	6.6	3.9	1.1	1.2	31.11	1.6	-3.1	-0.5	***
VGSH		F S T	Vanguard ST Trsry	VFISX	BS	B	1.0	-0.2	-0.8	-0.7	0.0	10.64	0.3	-25.3	-0.7	***
VGSH		F S T	Vanguard ST Federal	VSGBX	BS	B	1.0	-0.2	-0.9	-1.0	-0.1	10.69	0.3	-25.7	-0.7	***
BSV		F S T	Vanguard ST InvstGrd	VFSTX	BS	B	2.6	0.8	-0.5	-1.0	-0.1	10.63	0.3	-22.7	-0.8	***
VT		F S T	Vanguard Global Eqty	VHGEX	EW	E	6.6	6.8	6.3	0.1	1.5	24.82	2.5	-3.4	-0.8	***
VMBS		F S T	Vanguard GNMA	VFIIX	BU	B	1.7	-0.2	-1.3	-2.0	-0.2	10.54	0.4	-26.7	-1.0	***
NotAvl		F S T	Vanguard Wellesley Incm	VWINX	H	H	8.1	4.2	0.4	3.2	1.3	25.47	1.1	-11.2	-1.3	***
VIG		F S T	Vanguard Div Grth	VDIGX	ELC	E	7.5	4.5	1.8	1.0	1.3	23.43	2.1	-8.5	-1.7	***
MGK		F S T	Vanguard Index Grth	VIGRX	ELC	E	6.0	5.7	4.6	-0.4	1.1	57.32	2.6	-7.7	-2.0	***
BIV		F S T	Vanguard IT InvstGrd	VFICX	BI	B	3.6	0.1	-2.3	-3.2	-0.1	9.64	0.8	-26.5	-2.0	***
BND		F S T	Vanguard TTL Bond Index	VBMFX	BI	B	2.3	-0.7	-3.0	-3.4	0.0	10.65	0.7	-29.4	-2.0	***
VTIP		F S T	Vanguard FI TIP	VIPSX	BS	B	4.5	-0.1	-1.8	-2.7	-0.2	12.98	0.9	-24.8	-2.2	***
NotAvl		F S T	Vanguard Pacific Index	VPACX	EW	E	5.2	7.3	5.8	-2.8	-0.4	11.08	2.5	-9.5	-2.4	**
VGIT		F S T	Vanguard IT Trsry	VFITX	BI	B	1.1	-2.3	-3.9	-3.5	-0.2	11.09	0.8	-33.5	-2.6	**
VWO	to sell	F S T	Vanguard Emrg Mrkt	VEIEX	EW	E	11.5	5.9	3.6	-3.9	-0.2	22.68	3.5	-7.6	-2.7	**
VUG		F S T	Vanguard Morgan Growth	VMRGX	ELC	E	3.3	5.3	5.1	0.0	0.7	24.37	2.7	-10.3	-2.7	**
NotAvl		F S T	Vanguard Intl Value	VTRIX	EW	E	4.5	5.0	4.9	-1.1	1.6	31.75	2.8	-9.8	-2.8	**
VXUS		F S T	Vanguard Intl Equity	VFSVX	EW	E	4.2	3.2	3.2	-3.8	1.4	35.86	2.7	-16.4	-4.4	**
BLV		F S T	Vanguard LT InvstGrd	VWESX	BI	B	7.4	0.6	-5.1	-6.8	0.8	10.06	1.8	-27.7	-4.9	**
NotAvl		F S T	Vanguard Star	VGSTX	H	H	2.4	1.8	0.0	-4.4	-3.0	23.68	1.9	-27.8	-5.1	**
VGK		F S T	Vanguard European Index	VEURX	EW	E	-0.8	1.7	4.0	-1.1	4.7	25.75	3.2	-16.1	-5.2	**
MGK		F S T	Vanguard US Growth	VWUSX	ELC	E	-0.7	2.8	2.6	-3.3	0.0	29.13	2.6	-23.2	-6.0	**
VNQ		F S T	Vanguard REIT	VGSIX	ERE	E	8.3	2.0	-4.5	-3.0	4.7	27.39	3.7	-17.1	-6.4	**
VWO		F S T	Vanguard Intl Explorer	VINEX	EW	E	-1.8	0.2	3.9	-4.1	1.5	16.33	3.0	-24.8	-7.5	*
NotAvl	to sell	F S T	Vanguard Intl Growth	VWIGX	EW	E	1.7	3.8	3.3	-6.7	0.3	21.19	3.4	-22.2	-7.5	*
VGLT		F S T	Vanguard LT Trsry	VUSTX	BL	B	1.5	-6.3	-12.1	-11.8	0.0	11.74	2.3	-53.2	-12.1	*

This table shows the Vanguard funds we track and their ETF counterparts (column 1). The green highlight in column 2 (Sell Eligible) means these 35 funds were part of the back test. For the most part, those will also be the funds in the portfolio, even if there are higher ranked funds. The reason for this is to provide continuity. The results of the back test are shown on page 3. The Sell Eligible column 2 also shows the three funds in the portfolio and their eligible sell date. For Vanguard, we assume at least a three-month holding period to avoid redemption charges. Please see page 4 for more legend details.

# Back Test Results

**How C-lect May Work For You**



TRAILING RETURNS	to year end 2014
1 year	11.2
3 years	14.0
5 years	9.4
10 years	12.2
15 years	13.6
20 years	16.0
Inception	14.7

PAST PERFORMANCE	
2014	11.2
2013	36.0
2012	(2.2)
2011	3.1
2010	2.8
2009	20.4
2008	(0.1)
2007	18.3
2006	24.2
2005	14.2
2004	25.7
2003	21.5
2002	12.6
2001	4.9
2000	18.8
1999	55.1
1998	(0.2)
1997	25.8
1996	14.5
1995	28.2
1994	2.5
1993	10.9
1992	(1.0)
1991	22.4

The chart and tables show the back tested results of buying the top three Vanguard Family funds as measured by C, holding for at least 90 days, and rotating out of the laggards into the leaders on an ongoing continuous basis. On the chart, C-lect 3 Vanguard is the blue line following a rotation strategy, VWELX (Vanguard Wellington), a balanced fund, is the red line following a buy and hold approach, and SPY (S&P 500), a domestic large cap ETF, is the green line following a buy and hold approach. The period is from 1/1/1993 through 9/30/2015. Account start values were \$100,000. No additions or subtractions were made thereafter.

While buying and selling based on C, the risk-adjusted relative performance metric, over the years and decades in the back test produced superior results, in any one year the C ranking may or may not outperform the markets. This may be due to increased market volatility in that year.

For the test, one fund's sell and buy rebalanced all funds held, though in real time, one sell buys one fund for the same dollar amount would be practiced.

The same funds were used for the whole back test.

Dividends are reinvested.  
Taxes are not considered.

Information does not take into account your personal situation.

Past performance does not guarantee future performance. There is no assurance that future periods will be equivalent or similar to past periods. In a back test, there is no guarantee that actual trades could actually be made at the actual prices. All investments have risk; you may lose principle when investing. There are no guarantees. Read the fund's prospectus.

# Legend

ETF Altrntv	Sell Eligible	Legend	Fund Name	Symbol	S	A	12m	9m	6m	3m	1m	NAV	V	CS	C	Fmly Rank
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This information below identifies the column headings shown above, which are also on page 2.

**ETF Altrntv** is the Vanguard ETF alternative to its mutual fund.

**Sell Eligible** is the earliest date from purchase that the fund may be sold. For Vanguard, it is three months. If there is a green highlight, it means the fund was part of the back test. If there is a date, it means the portfolio owns the fund and it is the earliest date the fund may be sold, assuming a minimum of a three-month hold.

**Legend** shows fund specific information. It is a short list of where the fund is available for purchase (F is Fidelity, S is Schwab, T is TD Ameritrade). C means the fund is closed. R means there is a short-term redemption fee.

**Fund Name** is the fund name.

**Symbol** is the fund ticker symbol. This is the official identification.

**S** is Style. The first letter is for the A, the next letter or two is the style. BS is bond short-term. BI is bond intermediate. BL is bond long. BH is bond high-yield. BW is bond world. BU is bond government. EG is equity gold. EGI is equity growth/income. ELC is large cap. EMC is mid cap. ESC is small cap. EV is value. EW is world. H is hybrid. A is Asset. B is bond. H is hybrid. E is equity.

12m, 9m, 6m, 3m, 1m is a fund's returns over those periods. Dividends are reinvested.

**NAV** is net asset value.

**V** is volatility, a measure of risk.

**CS** is comet strength, a measure of relative performance to an index. The index is 60% of the World Growth Index and 40% of the World Income Index.

**C** is comet, the risk-adjusted relative performance metric. The higher the C is the better.

**Fmly Rank** is family rank. This shows where the fund ranks by C within the fund family. This is either 5, 4, 3, 2, or 1 comets. 5 is the highest ranked by C.

World Growth Index (WGI) is made up of 20% EEM, EFA, IWM, QQQ, SPY.

World Income Index (WII) is made up of 20% PCY, BSV, TLH, LQD, JNK.

World Hybrid Index is made up of 60% WGI and 40% WII.

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